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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.
Topic 2	• InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.
Topic 3	• Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q49-Q54):

NEW QUESTION # 49
What are the two general user account types in MLNX-OS?
Pick the 2 correct responses below:

- A. monitor
- B. viewer
- C. admin
- D. enable

Answer: A,C

Explanation:
MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types: adminandmonitor. Theadminaccount has full administrative privileges, allowing for complete configuration and management of the system. Themonitoraccount, on the other hand, is designed for users who need to view system configurations and statuses without making any changes. This separation ensures a clear distinction between users who manage the system and those who monitor its operations.
Reference Extracts from NVIDIA Documentation:
* "There are two user roles or account types: admin and monitor. As 'admin', the user is privileged to run all the available commands. As 'monitor', the user can run commands that show system configuration and status, or set terminal settings." MLNX-OS is the network operating system used on NVIDIA's Mellanox Ethernet switches, including the Spectrum family (e.g., Spectrum-4 switches in the Spectrum-X platform), designed for high-performance Ethernet networking in AI and HPC data centers. MLNX-OS provides a command-line interface (CLI) for configuring and managing switch operations, with user accounts controlling access to various commands and functions. The question asks for the two general user account types in MLNX-OS, which define the primary privilege levels for user access.
According to NVIDIA's official MLNX-OS documentation, the two general user account types in MLNX-OS are:
* monitor: This account type has read-only access, allowing users to view configurations, status, and logs but not modify settings. It is used for monitoring and troubleshooting without risking unintended changes.
* admin: This account type has full read-write access, enabling users to view and modify all configurations, execute commands, and manage the switch's operations. It is intended for administrators with complete control over the system.
These two account types represent the primary privilege levels in MLNX-OS, providing a clear distinction between read-only monitoring and full administrative access.
Exact Extract from NVIDIA Documentation:
"MLNX-OS supports two primary user account types for managing switch operations:
* monitor: Users with monitor privileges have read-only access to the system. They can view configuration details, system status, and logs but cannot make changes to the configuration.
* admin: Users with admin privileges have full read-write access, allowing them to configure, manage, and troubleshoot all aspects of the switch, including executing privileged commands.These account types ensure secure and controlled access to the switch's management functions."-NVIDIA MLNX-OS User Manual This extract confirms that options B (monitor) and C (admin) are the correct answers. These account types are the standard privilege levels in MLNX-OS, used to manage access for monitoring and administrative tasks on Spectrum switches, including those in Spectrum-X deployments.

NEW QUESTION # 50
A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized accessto the network.
Which of the following features of the Spectrum-X platform should the provider implement?

- A. Congestion Control
- B. Traffic Isolation
- C. Adaptive Routing
- D. Streaming Telemetry

Answer: B

Explanation:
In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through itsTraffic Isolationcapabilities.
This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.
Reference Extracts from NVIDIA Documentation:
* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."
* "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

NEW QUESTION # 51
You are configuring an InfiniBand network for an AI cluster and need to install the appropriate software stack. Which NVIDIA software package provides the necessary drivers and tools for InfiniBand configuration in Linux environments?

- A. NVIDIA GPU Cloud
- B. CUDA Toolkit
- C. NVIDIA Container Runtime
- D. MLNX_OFED

Answer: D

Explanation:
MLNX_OFED (Mellanox OpenFabrics Enterprise Distribution) is an NVIDIA-tested and packaged version of the OpenFabrics Enterprise Distribution (OFED) for Linux. It provides the necessary drivers and tools to support InfiniBand and Ethernet interconnects using the same RDMA (Remote Direct Memory Access) and kernel bypass APIs. MLNX_OFED enables high-performance networking capabilities essential for AI clusters, including support for up to 400Gb/s InfiniBand and RoCE (RDMA over Converged Ethernet).
Reference Extracts from NVIDIA Documentation:
* "MLNX_OFED is an NVIDIA tested and packaged version of OFED that supports two interconnect types using the same RDMA (remote DMA) and kernel bypass APIs called OFED verbs - InfiniBand and Ethernet."
* "Up to 400Gb/s InfiniBand and RoCE (based on the RDMA over Converged Ethernet standard) over 10 /25/40/50/100/200/400GbE are supported."

NEW QUESTION # 52
A high-performance InfiniBand fabric requires a routing engine that maximizes throughput and network utilization while reducing congestion. Which option below is the best routing engine for InfiniBand?

- A. Adaptive Routing
- B. Random Routing
- C. Round Robin Routing
- D. Shortest Path Routing

Answer: A

Explanation:
Adaptive Routingin InfiniBand networks dynamically selects the optimal path for data packets based on current network conditions, such as congestion levels and link utilization. This approach ensures that traffic is evenly distributed across the network, preventing bottlenecks and maximizing overall throughput.
By continuously monitoring the network and adjusting routes in real-time, Adaptive Routing enhances performance and reliability, making it the preferred choice for high-performance computing environments where consistent low latency and high bandwidth are critical.
Reference:NVIDIA InfiniBand Adaptive Routing Technology Whitepaper

NEW QUESTION # 53
Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- A. ONIE
- B. NCLU
- C. WJH
- D. BGP

Answer: C

Explanation:
The "What Just Happened" (WJH) service on Cumulus switches provides real-time visibility into network problems by monitoring various layers and components, including layer 1, layer 2, layer 3, tunnel, buffer, and Access Control List (ACL) related issues. WJH streams detailed and contextual telemetry data, enabling administrators to diagnose and troubleshoot network problems effectively.
Reference Extracts from NVIDIA Documentation:
* "WJH can monitor layer 1, layer 2, layer 3, tunnel, buffer and ACL related issues."
* "The WJH service enables you to diagnose network problems by looking at dropped packets."

NEW QUESTION # 54
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